# Mohave County Miner.

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#### A GREAT ENTERPRISE.

A Reduction Works That Saves All Values in Sulphide Ores to be Erected in Kingman.

After thorough investigation of the mineral deposits in Mohave County, which was made by and under the supervision of C. G. Andrews, of Los Angeles, California, we are pleased to state that Mr. Andrews has informed us that his company will erect a plant of this character in Kingman.

The capacity of the reduction works to be constructed will be 500 tons daily but will start off with a daily capacity of 200 tons.

The process used saves all the values of sulphide ores that are burdened with an excessive percentage of zinc, exemplifying the value of a process that is undoubtedly destined to exert a far-reaching, well nigh revolutionary effect on the mining industry of Arizona and southern California.

Zinc has been the plague of mining operators of this locality, for the ore bodies of the area thus comprehended carry a large proportion of this refrac tory element. The result has been that hundreds of thousands of tons of law grade ore lie on the dumps of the Arizona mining camps and an untold number of tons of such ore have been left underground as unavailable. It is safe to say there are 300,000 tons of ore in the vicinty of Chloride with values carrying from five to fifteen dollars per ton that has been considered prac tically wo thless because of the pro portion of zine it contained.

The smelters will not take ores carrying in excess of ten per cent, of zinc, and the zinc of the ore they do take is not only a complete loss to the miner but the cause of an expense, for a penalty of 5.) cents per unit is charged for the metal.

Yet zinc is a commodity worth from five to six cents per pound, therefore well worth the saving. The attempt to save the zinc with the ordinary smelter methods however would result in a de struction of the other values.

The process of this company accomplishes the saving of all of the values, zinc included, without impairment to any, performing its highly important work by separating the zinc from the other metals in the ore.

In the first place the ore is cru-hed to a 3) mesh fineness then it is roasted, and in the character of the roasting consists one of the essential features of the process for the roasting must be such as will reduce the ore to the right degree of disintegration.

After the roasting the ore is transferred to the leaching tanks where a chemical solvent cuts the zinc out in a con entrate of ideal character that zinc. After precipitation the zinc is may be easily reduced into bars, sheets or any other commercial condition de-

sired. The Gold Hill Reduction Company's therefore it does not require any complicated, expensive or newly patented device. With the exception of the asreferred to. The solvent, itself, is a compartively inexpensive article. The difference in results between the ordinary treatment of ore and that accorded by the process of the Gold Hill Reduction Company:

( Table 1   1   1   1   1   1   1   1   1   1		
Gold	00.15	oz.
Silver	16.10	oz.
Lead, per cent	9.6	
Zinc, per cent	26.3	
Smelter returns, f. o. b. sme	elter,	on
this ore should be:		
Gold	z. 8 3	00
Silver	z. 8	5 53
Total	811	53
Less 5 per cent 55	811	L 00
Lead, 9.6 per cent. at 25c.per ct		
		_

Assay value of ore treated.

Less zinc penalty on 16.3 per cent at 50c.....

Charges exceed values ...... Gold Hill Reduction Company's pro Lead, 9.6 per cent. equals 192 lbs. @ 4 1/4 cents..... Silver..... Less loss refining..... 92 lbs. Zine, 366 lbs. @ 5 1/2 ....

Cost of treating and refining ..

Net balance..... It will be seen that under the common treatment, the producer of the above lot of ore would be 4.758 "worse off than nothing," the smelting charg es exceeding the values obtained that much. With the treatment of the Gold Hill Reduction Company however, there is a net profit of 27.828, this the total zinc values are saved

The cost of treating ore with this process will vary from 3.008 to 5.008 per ton, so that any ore whose value exceed the latter figure will be eligible for treatment, no matter what the percentage of zinc. There is a deep significance in this fact. It means the res cue of millions of dollars from the dumps and the development of hundreds of low grade properties in Mohave County alone. In potential effect, this process whereby so vast an amount of supposedly refactory ore can be utilized to practically its full metal value, is bound to surpass even eyenidizing.

The site for the plant has been selected and work on the foundation will soon be commenced.

### Gold Stealing.

The question of gold stealing in Western Australia has recently been again before the Chamber of Mines of Western Australia. In a recent issue of the monthly magazine it is stated that some eighteen months ago there were fifty receivers known to the police, of whom one gentleman, whose record was disclosed, was able to dispatch through his bank about 500 onnces of smelted gold a month. The state of affairs was in fact so bad that the Polite Act was amended to deal with the matter, and for the time apparently with satisfactory results. Familiarity, however, is said to be now breeding, if not contemp, at least skill, ground, of course, so that no accident solution and its precipitation occurs, in evasion, and the Chamber is asking will occur, then encourage the boys to leaving a highly desirable smelting flux, for more drastic penalties. At the investigate all the "dips, spurs and same time difficulties are no doubt examples" of modern mining. Those could only be otherwise produced by perienced in administering the law heat intense enough to destroy the from popularity of the practice as rerecovered in the form of an oxide, and Western Australia is not the only field which suffers; it is a common They are Tombstone boys, which complaint co-extensive with gold mining. Where fields differ it is within the power or good will of the legislaprocess is not a matter of mechanism, ture and executive to curb the prac tice. As a role with colored labor, as in the Transvaal, where obstacles to drastic legislation are not the same sistance rendered in the roasting, the as among white miners who enjoy the process' function is performed entirely franchise, the question is more easily through a chemical agency-the solvent dealt with, though in British Guiana dare not interfere, and the difficulty following example will illustrates the in the case of large mines being opened would be a most serious one. West Africa, too, does not seem to be well

bankers and claim holders as regards any day, not in the Tories; in Chatham maximum penalties of £500 fine or two Johnson or Lord North. I belive that the present, and quite a little settle-\$4.75 years imprisonment, or both for a the north star, abiding in its place, is a ment is springing up. first offence and for subsequent trans-\$ 3 00 trading with a colored person. One the United States, when William Mcimportant provi-on is that a register 8 16 must be kept in which within twenty-8 53 four hours all transactions are recorded, showing parties, price, and weight in default six months' imprisonment. the world is growing better; that today It is a common feature of such legislation that the accused has to establish 12 00 his innocence, and the temptation to "traps" is, of course, such that among white communities there is great reluctance to entrust the police with the arbitrary power which the executive of such measures involves. At the same time it is probably more satisfactory to all concerned than to adopt a sy stem of scrutiny and search, the effect of which in the case of the Lucknow mines will be remembered by many. result being accomplished chiefly by In a good many cases something might the saving of the values in zinc, that be done by Acts of local application otherwise would have been lost to the to consult public convenience without producer. From 80 to 90 per cent of diminishing the efficiency of the control.-London Mining Journal,

Infustrious Youth in Mining Operation.

The son naturally falls into the ways of his father. As an illustration of this fact, in a cert in back yard in Tombstone, about six small boys averaging about ten years of age, sons of shaft thirty feet deep with a drift for the rains next spring. We are also about fifteen feet long. They have a putting up a company store and an perfect hoisting system and bell code, office, and in short, are making pre-Their mothers' clothes lines got a little the worst of the bell code, but it is per fect, even to "man on" and the order "all set" goes forth with a perfunctory anywhere from ten cents up to 2.508 neatness that is admirable.

Yesterday as a Porpector reporter was taking observations on the work, one of the youngsters announced in stentorian tones in the shaft, "I am go ing on top." As he emerged with his sleeves rolled to his shoulders and a candlestick in his belt, he shrugged his shoulders disdainfully and announced for the benefit of all present, The work in that drift is the rottenest I ever saw, and I don't propose to stand for it. If I had a ten year old kid that couldn't do a better job of timbering than that I'd set him to paring spuds." After a brief consultation with the management, however, the young man returned to work, and another plane box was converted into shaft lining.

The boys are preparing to sell stock for development purpose. The parents keep cases on the condi ion of the boys with proper encouragement will know more about mining and mine vealed by the extent of the loss, manipulations in a year than half the experts and two thirds of the lawyers. means that they have the stuff in them to make business men.-Pros-

#### Noble Sentiments.

The following from a speech by the late senator George F. Hoar may be termed his declaration of faith:

"I have no faith in fatalism, in destiny, in blind force. I believe in God, we have been told the administration the living God. I believe in the American people, who do not bow the neck or bend the knee to any other, and who desire no other to them. I believe that the God who created this situated in this respect, and the local werld has ordained that His children paper bears witness to the extent of may work out their own salvation, and the practice on the Kolar field. In the that His nations may work out their Transvaal the leaders of the mining own salvation by obedience to His industry, with their Kimberly I. D. B. laws, without any dictation or coercion experience, possess perhars the most from any other. I believe that liberty, effective legal control. Under Sec. 248 good government, free institutions, of the present Gold Law trading in the | cannot be given by any one | people | to commodity with a native involves a any other but must be wrough out for maximum penalty of £1,000 fine or five each by itself, slowly, painfully, in the years imprisonment, or both, while in process of years or centuries, as the the case of the colored person for the oak adds ring to ring. I believe that a fine fifty lashes is substituted. The republic is greater than an empire. I same penalties are provided under Sec. believe that the moral law and the 12 of the Unwrought Precious Metals golden rule are for nations as well as \$13 4. Trading Ordinance of 19.3. This act for individuals. I believe in George

Less smelting charges per ton \$10 00 further restricts the trade to licensed Washington, no in Napoleon Bona traders (who must pay £25 a year), part; in the Whigs of the Revolutionthe produce of their own claims, under Burke and Sam Adams' not in Dr. greater influence in the universe than gressions the same penalties as for any comet or meteors. I believe that idence for Superintendent Reemer; a Kinly was inaugurated, was a greater world power than Rome in the height of her glory, or even England with her 400,000 vassals. I believe whatever of metal, under penalty of £50 fine, or clouds may darken the horizon that is better than yesterday, and tomorrow will be better than today.

> Mr. R. D. O'Neill, who is vice president of the Gold Mining Assurance company, is in the city for the purpose of purchasing supplies for his camp, which is located at the postoffice known as Old Glory, due south of says the Tucson Citizen. The com pany of which the gentleman is an officer is an eastern corporation composed mostly of Indiana and Michigan capiplacer mine and the company has 1760 We are working fifteen men at pre sent," said Mr. O'Neill yesterday;" the principal thing under way just now being the construction of a 2,000,000 gallon reservoir, which will be in operation about the first of the year. Whether we can start work then remains to be parations for lots of work, and the force will be increased just as soon as that is justified. Our ground assays per cubic yard, or, as we figure it, the average will run about 18 per yard. We h ve sunk numerous shafts and otherwise thoroughly e-ted the ground and are confident that we have a big proposition before us."

"I was much afflicted with sciatica." writes Ed. C. Nud, Iowaville, Sedgwick Co., Kan., "going about on crutches and suffering a deal of pain. I was in duced to try Ballards Snow Linament, which relieved me. I used three 50c. bottles. It is the greatest linament I ever used; have recommended it to a number of persons; all express themselves as being benefited by it. I now walk without crutches, able to perform a great deal of light labor on the farm. 25c, 50c, \$1.00 Sold by H. H. Watkins, all druggists,

The News-Herald says: At the camp of the Amalgated Gold Mines Company at Cholla, near Quartzite, things are moving along in a lively fashion at

The company has completed a rescottage for his assistants, storekeepers, etc; a store building, a boarding-house for employees and a large barn. A lodging house and other buildings are in course of construction. There are about thirty men at the camp.

Grading for the 120 stamp mill has been completed and work will soon be began on the building. Plans for the mill have been drawn by a firm of Prescott architects, but have not yet been approved. Sixty stamps only will be used at first, and the other sixty will be added later. Forty of the stamps are now on the ground. It is expected that the mill will be in operahere, and I most on the Mexican line, tion early next year. The company will use cement mortar-blocks in the mill, instead of the usual wooden ones. Work has been delayed to some extent by a failure to receive consignments of talists and has only been in operation cement when expected. The power since last July. The proposition is a will be steam. There are at this place two 16)-horse-power boilers awaiting acres of ground in its possession, shipment. A rock breaker is on the wagon, and will be sent out in a day or two. Besides this machinery, there are several carloads of lumber and other material on the sidetrack at this station. The company has twelve teams in its employ at the present time, and is rushing supplies to the miners and mining men, h ve sunk a seen, of course. We may have to wait front as fast as circumstances will per-

> We handle only Levi Strauss overalls. All sizes. THE EMPORIUM.

#### Good Spirits.

Good spirits don't all come from Kentucky. Their main source is the liver-and all the fine spirits ever made in the Blue Grass state could not remedy a bad liver or the hundred and one ilı effects it produces. You can't have good spirits and a bad liver at the same time. Your liver must be in a fine condition if you would feel buoyant, happy and hopeful, bright of eye, light of step, vigorous and successful in your pursuits. You can put your liver in fine condition by using Green's August Flower-the greatest of all medicines for the liver and stomach and a certain cure for dyspepsia or in digestion. It has been a favorite house hold remedy for over thirty-five years. August Flower will make your liver healthy and active and thus insure you a liberal supply of "good spirits." Trial size, 25c; regular bottles, 75c. At

## Fifty Years the Standard



Made from pure cream of tartar derived from grapes.

PRICE BAKING POWDER CO., CHICAGO.